**List of primers used in this study.**

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| --- | --- |
| Purpose | Primers |
| *daf-2* promoter | 1 CCCAAGCTTTATAACGTTCTTCCCCTCCCA2 ATTACCGGTCGTTCTGTCTGCATTTACAAGTG |
| *daf-2* Exon 11-Exon 12 genomic -  | 3 ATTACCGGTATGAGCACCCCCGCAAATCGACAAC4 CGGGGTACCGGCGCATAAAGTGTGTAATGCTTCAAATTTCGT |
| TdTomato::*unc-54* 3’UTR | 5 CGGGGTACCGGTAATGGTGAGCAA6 CGTACGGCCGACTAGTAGGAAACAGTTA |
| *daf-2* Exon 11-Exon 11.5 genomic -  | 7 ATTACCGGTATGAGCACCCCCGCAAATCGACAAC8 CGGGGTACCCCATCATGCATTACAGACATCATCAAATCATG |
| TdTomato | 9 CGGGGTACCGGTAATGGTGAGCAA10 GTCGACTTACTTGTACAGCTCGTCCATGC |
| *daf-2* intron 11.5-exon 12::*unc-54* 3’ UTR | 11 ACGCGTCGACGCGCGAAATTTGAATTTTTCAAAAAAAATT12 CGTACGGCCGACTAGTAGGAAACAGTTA |
| GFP + polylinker | 13 ATAGACCCTGCAGGACCGGTATAAGAATGCGGCCGCAATGAGTAAAGGAGAAGAACTTTTCACTG14 CTAGCTAGCCTATTTGTATAGTTCATCCATGCCATGT |
| *rab-3* promoter | 15 ACATGCATGCGAGCAGTGGACTGTCTATTTG16 ATTACCGGTCTGAAAATAGGGCTACTGTAGAT |
| *myo-3* promoter | 17 CCCAAGCTTCCCGACAAAACATGAGTATTTC18 ACCGGTTCTAGATGGATCTAGTGGTCGTG |
| *pges-1* promoter | 19 CAGTTTAAGCTTTTGGCATGAATACA20 ATAGACCCTGCAGGCTGAATTCAAAGATAAGATATGTAATAG |
| *tag-335* promoter | 21 ATAGACCCTGCAGGGCGATCACCAGCAAGAAGAG22 ATTACCGGTTTGATGGAAGTGGTGAAACAACC |
| *prgef-1* promoter | 23 ATAGACCCTGCAGGCGATAATCTCGTGACACTCGTTTC24 ATTACCGGTCGTCGTCGTCGTCGATGC |
| *punc-122* promoter | 25 CCCAAGCTTTGTACGTTACATCTCATATACTCTGGGCAT26 ATTACCGGTATTGTGAGCCCAATGAAGTAAAATTTCATGCT |
| *pdpy-7* promoter | 27 CCCAAGCTTAAAGTTTGGAGAAGTGATGATTG28 ATAGACCCTGCAGGATCTGGAACAAAATGTAAGAATATT |
| *daf-2b cDNA* | 29 ATAGACCCTGCAGGACCGGTATAAGAATGCGGCCGCAATGACGAGAATGAATATTGTCAGATGT30 CTAGCTAGCCTAATCATGCATTACAGACATCATCAA |
| C-terminal FLAG + *unc-54* 3’ UTR | 31 ATAAGAATGCGGCCGCGGATTACAAGGATGACGATGACAAGGACTATAAGGAC32 CGTACGGCCGACTAGTAGGAAACAGTTA |
| Full length *daf-2b* cDNA without stop | 33 ATTACCGGTATGACGAGAATGAATATTGTCAGATGT34 ATAAGAATGCGGCCGCATCATGCATTACAGACATCATCAA |
| *daf-2b* cDNA with C196Y mutation | 35 CGAAAAACGATACGGCCCAATCG36 ACTATTGAGGCACACGGC |
| *daf-28* promoter | 37 ATAGACCCTGCAGGTAAATGAGCATAATTCATAGACTAACAAGTTTTG38 ATTACCGGTGTTGAGATAGTTGTTGAGAGGAGACAGA |
| *daf-28* genomic DNA | 39 ATTACCGGTATGAACTGCAAGCTCATCGC40 CGGGGTACCTTAAAGAAGCAAACGTGGGCAAC |
| *ins-6* genomic DNA | 41 ATTACCGGTATGAACTCTGTCTTTACTATCATCTTCGTTTTG42 CGGGGTACCTCATGGACAACAAGCAGATCTTATG |
| *ins-18* promoter + genomic DNA | 43 ATAGACCCTGCAGGGATGCTTTTTAGAATGTCCGGAAAGTG44 CGGGGTACCTTAAATTGGGGCACAGTAGGCAAG |
| Q5 SDM C-HA | 45 CCGGATTATGCGTAAGGGATCCAGACATGATAAGATACATTGATGAGTTTGGACAAAC46 CACATCATACGGATACGCGGCCGCGGTACCTCG |
| Q5 SDM C-MYC | 47 CGAAGAAGACCTGTAAGGATCCAGACATGATAAGATACATTGATGAGTTTGGACAAACC48 CTAATCAGTTTCTGTTCCGCGGCCGCGGTACCTCG |
| *daf-2b* cDNA | 49 GAAGATCTTATGACGAGAATGAATATTGTCAGAT50 ATAAGAATGCGGCCGCATCATGCATTACAGACATCATCAA |
| *daf-2* cDNA Ex11-Ex11.5 | 51 AACACTTGTAAATGCAGACAGAACGACCGGTATGACGAGAATGAATATTGTC52 ACTCGCATCGTGTCTAAAATCATATCAGCAAACTGTTC |
| *daf-2* cDNA Ex12-17 | 53 TGCTGATATGATTTTAGACACGATGCGAGTGAG54 TGCGGAGCTCAGATATCAATACCATGGTACCTCAGACAAGTGGATGATGCTCATTATC |
| *daf-2b* crRNA | 55 GATGTCTGTAATGCATGATT GUUUUAGAGCUAUGCUGUUUUG |
| *mScarlet* HDR template | 56 ATTTGCATGATTTGATGATGTCTGTAATGCATGATATGGTCTCCAAGGGAGAGGC57 ATTCGAATTTTTTTTGAAAAATTCAAATTTCGCGCTTACTTGTAGAGCTCGTCCATTCCTC |
| *dpy-10* crRNA | 58 GCUACCAUAGGCACCACGAGGUUUUAGAGCUAUGCUGUUUUG |
| *dpy-10* repair | 59 CACTTGAACTTCAATACGGCAAGATGAGAATGACTGGAAACCGTACCGCATGCGGTGCCTATGGTAGCGGAGCTTCACATGGCTTCAGACCAACAGCCTAT |
| tracrRNA | 60 AACAGCAUAGCAAGUUAAAAUAAGGCUAGUCCGUUAUCAACUUGAAAAAGUGGCACCGAGUCGGUGCUUUUUUU |
| *daf-2b::mScarlet* genotyping | 61 TGCATTTGAGAATAAGCTGTTGG62 TTGATCGTCTCACTCGCATC |
| *daf-2b::mScarlet* sequencing | 63 GCGACATAAAAAATGATCCTG64 CTTGTAGATGAGGGTTCCGTCCTCG65 CGAATGTAATATGTACTGTAATTATTAAATATTAAATTCTCG |
| *daf-2* exon 11 crRNA | 66 TGGATGAGGTTTTAATGCCG GUUUUAGAGCUAUGCUGUUUUG |
| *daf-2* exon 12 crRNA | 67 GAATCGAGTCAGTGAAGAGT GUUUUAGAGCUAUGCUGUUUUG |
| *daf-2bc* HDRtemplate | 68 ATTTGAGAATAAGCTGTTGGATGAGGTTTTAATGCCTCGAGACACGATGCGAGTGAGACGATCAATTGAAGACGCGAATCGAGTCAGTGAAGAGTTAGAAAAAGCTGAAAATTTGGGAAAAGCTC |
| *pha-1* crRNA | 69 ATGAATAACTTGATGAACAT GUUUUAGAGCUAUGCUGUUUUG |
| *pha-1* HDR template | 70 CAAAATACGAATCGAAGACTCAAAAAGAGTATGCTGTATGATTACAGATGTTCATCAAGTTATTCATAAATCATTGATAG |
| *daf-2bc(Δ)* genotyping | 71 TGCATTTGAGAATAAGCTGTTGG72 TATGCCTGCTCCAAGCCTAT73 CGCATAAAGTGTGTAATGCTTCAAAT |
| *daf-2bc(Δ)* sequencing | 74 GCCAGTCGATATTCCGTCAT75 CGCATAAAGTGTGTAATGCTTCAAAT |
| MosSCI genotyping | 76 CGCTACTTACCGGAAACCAA77 TTTCTCAGTTGTGATACGGTTTTT78 CAATTCATCCCGGTTTCTGT79 TCTGGCTCTGCTTCTTCGTT |
| Full length *daf-2b* cDNA | 80 ATGACGAGAATGAATATTGTCAGATGT81 CAGACATCATCAAATCATGCAA |
| *daf-2b* cDNA exon 11 to 3’UTR | 82 GCCAGTCGATATTCCGTCAT83 CACTTTTAATATGCTAAAATCTAATAAATAGAG |